illness and the like. The tables derived from the stadies of Boas and Burk represent the most extensive records of weights and heights made. Recent studies show that they are essentially true averages for miselected groups of American children. The Bons-Burk and other tables in general use are vitiated by the mensurements of large numbers of malnourished children, whose measurements lower the averages of weight and height, and make them of only relative value as standards. By setting the Boas-Burk figures the depression of averages is to a great part offset. Individual variations in the relationship of weight to height is of enough importance to make it necessary to use a zone system rather than any single line as a basis of reference. After various experiments at determining zone boundaries, clinical evidence is best satisfied hy lines lying between 7 per eent. below and 20 per cent. above the "set-forward Boas-Burk figures." Outside of the central zone are found, on the one hand, the obese, and on the other, the malnourished. Within the zone are still a considerable number of malnourished children requiring individual diagnosis. The mulnourished child selected by this rule of habitual 7 per eent. underweight for height form almost without variation 20 to 40 per cent, of any group of children in school and preschool periods. When tables have been constituted from sufficient numbers of children proved to be normal, the line of average weights and heights will lie somewhere between the set-forward Boas-Burke figures and those represented by a line drawn inidway between the 7 per cent, underweight and the 20 per cent, overweight boundaries. This has already been confirmed by the special studies of Baldwin and Robertson.

The Circulatory Reaction to Graduated Exercise in Normal Children. -Wilson (Am. Jour. Dis. Children, September, 1920) gives the technic for making this study, which consisted of more than five hundred test exercises comprising one hundred and fifty complete experiments. The test exercises consisted of swinging one or two iron dumb-bells (3, 4, 5, 7 and 10 pounds each) from the floor to the full stretch of the arms overhead and back again between the legs, at a constant rate of two seconds for each swing. This was repented from ten to sixty times to increase the amount of work. Each child performed at one visit three or four of these exercises graded from moderate to severe, until the maximum effort was approached as evidenced by marked breathlessness, flushed face, perspiration and fatigue. This was corroborated by an additional exercise of slightly increased intensity. The possible influence of one exercise upon another was eliminated by nllowing a full rest between each exercise, and by varying the order of exercises on subsequent visits. The pulse rate at the wrist was taken by an assistant before each exercise until it remained constant. It was taken immediately after exercise for fifteen seconds and again at the end of one hundred and ten seconds after exercise for twenty seconds. From these eounts the rate per minute immediately after exercise and at the end of two minutes were ealeulated. A pulse rnte within six beats of preexercise rate was considered normal. If the pulse was not normal at the end of two minutes, it was taken nt one-half minute intervals for from three to five minutes. The systolic blood-pressure after exercise was taken at five- and ten second intervals. Before exercise the systolic

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blood-pressure was read until a constant level was reached and at frequent intervals for two minutes. From these experiments upon the circulatory reactions after exercise, it was found that the circulatory reactions to graduated exercise on normal children nre similar to those in the adult. The circulatory reactions immediately following similar graduated exercises of two day intervals over a period of weeks were as a rule constant. The time required for the pulse rate to return to normal does not give much information as to the exercise tolerance of the child. A type of systolic blood-pressure after exercise showing an inercased rise, delayed rise and summit, and a prolonged fall, and associated with symptoms of marked dyspane and fatigue would seem to indicate that the exercise tolerance of the particular child has been reached or exceeded.

A Dental Clinic for Children in a Settlement.—Guthale (Jour. Am. Med. Assn., November 6, 1920) offers a report based on the case records of more than 8000 children, ranging in age from infancy to the sixteenth year. The records showed the age, sex, ruce, nutrition and history of previous infections. The school history was also noted. Record was made in every ease of the number of deciduous und permunent teeth, together with the presence of cavities, abscesses or sinuses, and their location. Special dyserasias, if present, were noted, as well as abnormal frenum, fifth cusp, and geographic tongue. Roentgen findings and Wassermann reports were recorded when made. It was found that there was a marked reduction in the number of eases of infectious diseases in the children who belonged to this clinic. There was not an epidemie in this neighborhood since the work was instituted. Two special groups of children were studied. One consisted of those who were known to be tuberculous, and the other of those who were proved eases of syphilitic infection. These were observed in order to determine the value of thorough dental eare in these types of eases. In the tubereulosis group 95 per eent. of the deciduous teeth had to be removed before the eighth year on account of absecsses. In the syphilitie group only 40 per cent. had to be removed. More cases of retarded absorption of the deciduous roots were noted in the syphilitie group than in the tuberculous. In 9 cases of 60 at the thirteenth year roentgenograms were made to determine the condition of the deciduous roots. These disclosed a beginning absorption. In these 9 eases the 10 deciduous teeth were extracted first on the right side and after about six weeks the ten deciduous teeth on the left side were removed. In a few months the permanent teeth were erupted in correct position. Ulcerative stomatitis occurred with greater frequency among the children from the purochial schools. These patients were all isolated in the hospital and treated with bacterieidnl measures against anacrobic organisms. There were no deaths but several eases of marked deformity ensued as a result of the extensive operative procedure necessary to overcome the infection.

Meningitis Caused by Lead Poisoning in a Child of Nineteen Months.

—Stnong (Arch. Ped., September, 1920) reports this case which was admitted to the hospital for a persistent vomiting and a mild diarrhen and a temperature of 99°. The history was that about ten days pre-